**Identifying Celestial Bodies Using a Dichotomous Key to the Universe**

**Group Members: Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Instructions:** Using your dichotomous key to the universe and the information provided, identify each of the unknown celestial bodies at the stations. With full sentences, provide reasons for each identification and the numerical pathway of how you came to that answer using the key.

Example:

The Big Dipper is a constellation. Pathway [1, 4, 5b]

Reasons: The Big Dipper is a system of objects and multiple stars. The stars do not have a gravitation relationship to each other, but form an apparent pattern in the sky.

**Station 1: Heavenly Lights**

**A) Antares is a \_\_\_\_\_\_\_\_Star\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Pathway [ 1, 2, 3a ]**

**Reasons: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**B) Eagle is a \_\_\_\_\_\_\_\_Nebula\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Pathway [ 1, 2, 3b ]**

**Reasons: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Station 2: Signs in the Sky**

**A) Orion is a \_\_\_\_\_\_constellation\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Pathway [ 1, 4, 5b ]**

**Reasons: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**B) Andromeda is a \_\_\_\_Spiral galaxy\_\_\_\_\_\_\_\_. Pathway [ 1, 4, 5, 6, 7a ]**

**Reasons: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Station 3: Bodies in Motion**

**A) Saturn is a \_\_\_\_\_\_\_\_Gas Giant Planet\_\_\_\_\_\_. Pathway [ 1, 2, 8, 9, 10a ]**

**Reasons: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**B) Pluto is a \_\_\_\_\_\_\_\_\_Dwarf Planet\_\_\_\_\_\_\_\_\_. Pathway [ 1, 2, 8, 9, 10, 13b ]**

**Reasons: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Station 4: Mass is Attractive**

**A) Io is a \_\_\_\_\_\_\_\_\_\_Moon\_\_\_\_\_\_\_\_\_\_\_. Pathway [ 2, 8, 11b ]**

**Reasons: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**B) Vesta is a \_\_\_\_\_\_\_Asteroid\_\_\_\_\_\_\_\_\_\_\_. Pathway [ 1, 2, 8, 9, 12b ]**

**Reasons: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Station 5: Terror from the Skies**

**A) Hale-Bopp is a \_\_\_\_\_\_\_Comet\_\_\_\_\_\_\_\_\_. Pathway [ 1, 2, 8, 9, 12a ]**

**Reasons: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**B) The Great Daylight 1972 Fireball is a \_\_\_\_\_meteor\_\_\_\_. Pathway [1, 2, 8, 11a ]**

**Reasons: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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